

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

BRUN-001XX

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

107559741

INTERNATIONAL APPLICATION NO.

PCT/US2004/018219

INTERNATIONAL FILING DATE

June 8, 2004

PRIORITY DATE CLAIMED

June 9, 2003

TITLE OF INVENTION

ESTIMATION OF BACKGROUND NOISE AND ITS EFFECT ON SONAR RANGE ESTIMATION

APPLICANT(S) FOR DO/EO/US

Nathan Intrator, Leon N. Cooper, Nicola Neretti

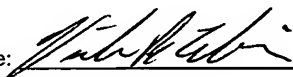
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ had been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached herewith (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (signed)
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☐ Other items or information:

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. **SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

U.S. APPLICATION NO. (if known/see 37 CFR 1.5) 00729741		INTERNATIONAL APPLICATION NO PCT/US2004/018219		ATTORNEY'S DOCKET NUMBER BRUN-001XX					
The following fees have been submitted:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">CALCULATIONS</th> <th style="width:50%;">PTO USE ONLY</th> </tr> </table>		CALCULATIONS	PTO USE ONLY		
CALCULATIONS	PTO USE ONLY								
21. <input checked="" type="checkbox"/> Basic national fee..... \$300.00				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">\$300.00</td> <td style="width:50%;"></td> </tr> </table>		\$300.00			
\$300.00									
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$100.00 All other situations \$200.00				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">\$100.00</td> <td style="width:50%;"></td> </tr> </table>		\$100.00			
\$100.00									
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100.00 International Search Report prepared and provided to the Office..... \$400.00 All other situations..... \$500.00				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">\$100.00</td> <td style="width:50%;"></td> </tr> </table>		\$100.00			
\$100.00									
TOTAL OF 21, 22 and 23 =				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">\$500.00</td> <td style="width:50%;"></td> </tr> </table>		\$500.00			
\$500.00									
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.									
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE						
- 100 =	/ 50 =		X \$250.00	\$0					
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$0					
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE					
Total claims		33 - 20 =	13	X \$ 50.00	\$650.00				
Independent claims		4 - 3 =	1	X \$200.00	\$200.00				
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00	\$0				
TOTAL OF ABOVE CALCULATIONS =				\$1,350.00					
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$675.00					
SUBTOTAL =				\$675.00					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(l)).				\$0					
TOTAL NATIONAL FEE =				\$675.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$0					
TOTAL FEES ENCLOSED =				\$675.00					
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Amount to be Refunded:</td> <td style="width:50%; text-align: center;">\$</td> </tr> <tr> <td>Amount to be Charged:</td> <td style="text-align: center;">\$</td> </tr> </table>		Amount to be Refunded:	\$	Amount to be Charged:	\$
Amount to be Refunded:	\$								
Amount to be Charged:	\$								
a. <input checked="" type="checkbox"/> A check in the amount of \$675.00 to cover the above fees, except assignment recordation, is enclosed. A check in the amount of \$_____ is enclosed for the assignment recordation fee.									
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>23-0804</u> . A duplicate copy of this sheet is enclosed.									
d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO: _____ which is associated with the Law Firm of: _____									
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Customer Number 00207 </div> <div> WEINGARTEN, SCHURGIN, GAGNEBIN & LEOVICI LLP Ten Post Office Square Boston, Massachusetts 02109 United States Telephone: (617) 542-2290 Fax: (617) 451-0313 </div> </div>									
Attorney Signature: <u></u> Date: <u>12-6-05</u>									
Attorney Name: <u>Victor B. Lebovici</u> Registration No: <u>30,864</u>									